

LEARNING TOGETHER ABOUT SPACING LEARNING OVER TIME

Purpose	Curriculum coordinators are encouraged to use this tool to provide in-service training to deepen teachers understanding of spacing content throughout the school year.
Materials	Laptop and projector
Media	<p><i>Spacing Learning Over Time With Review and Quizzing.</i> Watch this multimedia overview to understand how spacing learning over time promotes retention. (4:49)</p> <p><i>Key Concepts in Spacing Learning Over Time.</i> Watch this expert interview to learn how spacing and revisiting key course material promotes retention. (6:21)</p> <p><i>Bell Ringers, Pyramids, and Big Ideas.</i> Watch this multimedia presentation to understand how one teacher uses review in her classroom. (6:29)</p>
Topic	How to Organize Your Teaching
Practice	Spacing Learning Over Time

Learning Together About Spacing Learning Over Time

Hand out the bulleted discussion questions below before viewing. Watch the multimedia presentation, *Spacing Learning Over Time With Review and Quizzing*. Watch Dr. McDaniel's interview, *Key Concepts in Spacing Learning Over Time*. Clarify the team's understanding about spacing learning over time by asking them to reflect on these questions:

- How can asking students to recall information on more than one occasion help them to retain it?
- What do experts consider to be the ideal timeframe for spacing learning over time?
- What have you noticed about your students' ability to retain information over the course of the school year? What do they easily recall at the end of the year?
- What are some ways you already space and revisit key content over the course of the school year?

In his interview, Dr. McDaniel gives several examples of how material can be spaced over time. Think of an important topic or concept you teach only once that you could space over the course of weeks or months. Discuss how you might restructure your curriculum planning to do so.

View the multimedia presentation, *Bell Ringers, Pyramids, and Big Ideas*. In small groups, use the included table (sample below) to brainstorm the ways in which you can use review activities to revisit key concepts or ideas and additional strategies you might implement.

Ways I incorporate review in my class		Additional ways I might revisit key concepts
Teacher-directed review activities	Student-directed review activities	

Note to leader: For another review-building activity, see Discuss and Design: Reviewing Concepts Over Time.

The One-Minute Response: Ask teachers to take one minute to write one thing they learned during the discussion and one question they are still wondering about.

[illegible]